



TRIVALENT DATA SYSTEMS LTD.
29 Park St
Eden Mills, Ontario, N0B 1P0
Canada
866-616-8527

PRODUCT: ACETONE 1

CODE: TDS100

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER..... Trivalent Data Systems Ltd.
29 Park Street
Eden Mills
ON
Canada
N0B 1P0
866-616-8527
PRODUCT NAME..... ACETONE 1
PRODUCT USE..... Solvent. Industrial.
SYNONYMS..... Dimethyl ketone, 2-Propanone.
PRODUCT CODE(S)..... TDS100
24 HOUR EMERGENCY NUMBER:..... CANUTEC 24-hr number; 613-996-6666.

Section 02: HAZARD IDENTIFICATION



HAZARD CLASSIFICATION..... Flammable Liquids — Category 2. Eye Irritation — Category 2A . Specific Target Organ Toxicity — Single Exposure — Category 3.
SIGNAL WORD..... Danger.
HAZARD STATEMENT..... H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
PRECAUTIONARY STATEMENT..... P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking... P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Wt. %
Acetone	67-64-1	99-100

Section 04: FIRST AID MEASURES

SKIN CONTACT..... Wash affected area immediately with large amounts of soap and water. If irritation develops or persists, seek medical attention. Please translate me.
EYE CONTACT..... Causes eye irritation. Holding the eyelids apart, flush copiously with clean, fresh water for at least 10 minutes and seek medical advice.
INHALATION..... May be harmful if inhaled. Remove from exposure, move to fresh air. Seek medical attention.
INGESTION..... Harmful if swallowed. If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Seek medical attention.
NOTES TO PHYSICIAN..... No additional remark.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... Class 1B. Flammable liquid.
EXTINGUISHING MEDIA..... Use DRY chemicals, CO2, alcohol foam or water spray.
SPECIAL FIRE FIGHTING PROCEDURES..... Use a water spray to cool fire-exposed containers. Fire fighters should wear self-contained breathing apparatus and appropriate protective equipment.
HAZARDOUS COMBUSTION PRODUCTS..... Smoke, carbon monoxide, carbon dioxide and other products of combustion.
UNUSUAL FIRE / EXPLOSION HAZARDS.. Avoid heat, sparks and open flames.

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Section 06: ACCIDENTAL RELEASE MEASURES

LEAKS AND SPILLS..... Wear protective clothing during cleanup. Eliminate sources of ignition. Absorb with an inert material and place in a chemical waste container. Do not allow product to enter sewers or waterways. Clean contaminated surface and dispose according to local, provincial and federal regulations.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES..... Take precautionary measures against static discharges. Use under well ventilated conditions. An emergency shower complete with eye-wash fountain is strongly recommended.

STORAGE NEEDS..... Keep away from ignition sources: flames, pilot lights, electrical sparks, and sparking tools. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Section 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetone	500 ppm.	750 (Ceiling)	1000 ppm			TWA 250 ppm
PROTECTIVE EQUIPMENT						
EYE/TYPE.....	Chemical safety goggles with side shields.					
RESPIRATORY/TYPE.....	Local Exhaust Ventilation Preferred. Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).					
GLOVES/ TYPE.....	Chemical resistant gloves. Butyl rubber gloves.					
CLOTHING/TYPE.....	Protective work clothing.					
FOOTWEAR/TYPE.....	No special footwear is required.					
VENTILATION REQUIREMENTS.....	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.					

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... Colourless. Liquid.

ODOUR..... Pungent. Sweet.

ODOUR THRESHOLD (ppm)..... Not available.

pH..... Not applicable.

FREEZING POINT (°C)..... - 94.6 C.

BOILING POINT (°C)..... 56.5 C.

FLASH POINT (°C), METHOD..... - 17 C. (CC).

AUTO IGNITION TEMPERATURE (°C)..... 465 C.

EVAPORATION RATE..... Not determined.

UPPER FLAMMABLE LIMIT (% VOL)..... 12.8%.

LOWER FLAMMABLE LIMIT (% VOL)..... 2.6%.

VAPOUR PRESSURE (mm Hg)..... 184. mm Hg. @ 20 C.

VAPOUR DENSITY (AIR=1)..... 2.0.

DENSITY..... 0.79.

SOLUBILITY IN WATER (% W/W)..... Miscible.

COEFFICIENT OF WATER/OIL logPow. -0.24.

DISTRIBUTION

DECOMPOSITION TEMPERATURE..... Not available.

VISCOSITY..... Not determined.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION..... Will not occur.

STABILITY..... Stable.

CONDITIONS TO AVOID..... Sources of ignition.

SENSITIVITY TO MECHANICAL IMPACT... Not sensitive.

SENSITIVITY TO STATIC DISCHARGE..... Take precautionary measures against static discharges.

INCOMPATIBILITY..... Strong oxidizing agents. Bases. Acetone reacts violently with phosphorous oxychloride.

HAZARDOUS PRODUCTS OF Carbon monoxide, carbon dioxide and various hydrocarbons.

DECOMPOSITION

Section 11: TOXICOLOGICAL INFORMATION

Ingredients	LC50	LD50
Acetone	50,100 mg/m3 (8 hr), rat.	5,800 mg/kg, Oral, Rat; 20,000 mg/kg, Dermal, Rabbit
ROUTE OF ENTRY	Eye contact. Skin contact. Inhalation. Ingestion.	

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Section 11: TOXICOLOGICAL INFORMATION

SKIN CONTACT.....	Causes mild skin irritation.
EYE CONTACT.....	Causes severe eye irritation.
INHALATION.....	Vapours may cause irritation of the respiratory tract.
INGESTION.....	May be harmful if swallowed. Ingestion may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea.
MEDICAL CONDITIONS AFFECTED BY EXPOSURE	May cause drowsiness or dizziness. CNS depressant. Individuals with pre-existing skin disorders, eye problems or impaired respiratory function may be more susceptible to the effects of this substance.
CHRONIC EFFECTS ON HUMANS.....	May cause skin defatting resulting in a dermatitis condition.
TERATOGENICITY.....	No evidence of teratogen effects.
MUTAGENICITY.....	No evidence of mutagenic effects.
REPRODUCTIVE EFFECTS.....	No evidence of reproductive effects.
CARCINOGENICITY.....	No evidence of carcinogenic effects according to ACGIH or IARC.

Section 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA.....	Toxicity to fish;. LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates;. LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h.
PERSISTENCE AND DEGRADABILITY.....	91 % - Readily biodegradable. Method: OECD Test Guideline 301B.
BIOACCUMULATION.....	Does not bioaccumulate.
MOBILITY IN SOIL.....	No data.
OTHER ADVERSE EFFECTS.....	No data.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....	Dispose in a suitable waste treatment facility in compliance with all federal, provincial and local regulations.
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Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION	
SHIPPING NAME.....	ACETONE.
UN NUMBER.....	UN1090.
CLASS.....	Class 3.
PACKAGING GROUP.....	PGII.
IMDG.....	Marine Pollutant: No.
SPECIAL PRECAUTIONS.....	None.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....	B-2. D-2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this document contains all the information required by the Controlled Products Regulations.
CEPA STATUS.....	All the ingredients are on the DSL list.
Azelis new question.....	This is the new answer.
U.S. TSCA INVENTORY STATUS.....	All components of this product are listed on the TSCA Chemical Substances Inventory or are exempt.

Section 16: OTHER INFORMATION

DISCLAIMER:.....	This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Trivalent Data Systems (TDS) makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of TDS, and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).
PREPARED BY:	Regulatory Affairs
PREPARATION DATE.....	Mar17/15